

In Re Patent Application of:
AHMED
Serial No. 10/606,080
Filing Date: June 25, 2003

In the Specification:

Please replace paragraph [0008], with the following rewritten paragraph:

[0008] In many of these modulations schemes, the intelligence, or baseband signal, is processed into a plurality of ~~signal~~ signals in quadrature with each other. The in-phase (I) and quadrature phase (Q) signals combined represent the original baseband signal. Modulating these baseband components signals provides benefits over other modulation systems in terms of the amount of energy required to transmit a given amount of information (e.g, bits), bandwidth requirements, and a reduced probability of error in the received signal.

Please replace paragraph [0014], with the following rewritten paragraph:

[0014] FIG. 1(a) shows a general block diagram of a transmitter incorporating I, Q based modulation as in the prior art.

Please replace paragraph [0015], with the following rewritten paragraph:

[0015] FIG. 1(b) shows a general block diagram of a transmitter incorporating polar based modulation as in the prior art.

Please replace paragraph [0025], with the following rewritten paragraph:

[0025] ~~Turning to FIG. 1(a), an input wave 101 may consist of varying types of intelligence, e.g., voice, data, etc. The~~

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input wave 101 may be analog or digital, and is not limited. Similarly the transmitted output signal 102 may consist of various types of intelligence modulated onto a carrier wave, e.g. voice, data, etc. While the output signal may be analog, a digital output signal may be constructed as well and the invention is not limited.

Please replace paragraph [0034], with the following rewritten paragraph:

[0034] Another characteristic of the signals representing input wave 101, such as the magnitude of $[[an]]$ a signal ($|I|$) and a Q signal ($|Q|$), may be passed to amplifier 120 to control the gain or amplification of the modulated carrier wave signal(s). Examples ways to accomplish this are described in more detail below. Amplifier 120 may thus be used to drive antenna 125 through load line 121 with an output signal 102 that is an amplified version of input wave 101 modulated onto a carrier wave signal.